3:Will and Spinden E-5 (1905) 1906
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Verendrye mentions their skill in making such things as painted ox-robes, deer skin, dressed buckskin, and ornamented fur and feathers, painted feathers, peltry, wrought garters, circlets for the head, and girdles. They certainly understood the art of dressing skins, though perhaps other nations equalled them. All their visitors speak of the ornamented robes for the decoration of which porcupine quills dyed various colors, or the pigments themselves, as paints, were used at first, though beads came gradually to take their places. The ornamentation consisted usually of representations of animals, and pictographic records. When leather got wet, it was beaten and rubbed with white clay which they always carried with them. This kept the robes soft. Then there were medicine bags, tobacco pouches, sheathes for knives and bows, all of skin, painted or embroidered with quills, such as are seen over the whole plains area. They had leather bridles for their horses, sometimes embroidered, and used a saddle, similar to that of the Dakotas. The horses were caught by means of long raw hide lariats which the Indians made themselves.

Whistles were also necessary articles to those belonging to the societies. Maximilian[1] describes them as "long wooden whistles at whose lower end an eagle feather on a string dangles." He says they also had large flute whistles, twenty inches long, with holes to vary the notes by application of the fingers. Besides these were the war whistles, usually made from the wing bone of some large bird. Other articles of bone, necessitated by the great use of skins, were the bone scrapers, needles and awls with which each house was profusely supplied.

Almost the only agricultural implements which they used were hoes. These were the shoulder blades of buffalo or occasionally of elk, which were cut down and to which a crooked stick was fastened as a handle.[2]

Among their cooking utensils, which were used in every hut, were spoons and ladles of bighorn and buffalo horns. Verendrye says some of these ladles held as much as three pints.

So far as the accounts go the Mandans did not make any textile fabric, though the Arikara are known to have made

[1] Op. cit., p. 416.

garters and belts of buffalo hair.

[2] Henry: vol. I, p. 343.

3:Will and Spinden E-5 (1905) 1906
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garters and belts of buffalo hair. But they did make string and willow matting. There is an account of a mat used on the seat before the fire. Henry[1] says that the mat was of small willows of equal size, fastened together by thread of native make passed through each stick about one foot apart. The mats were ten feet long, four feet broad, and the two ends for two and a half feet were raised slanting from the ground and supported by a kind of sofa. Verendrye says they made wicker work very neatly, flat, and in baskets.

The Mandans used snow-shoes which were only about two and a half feet long.[2] For their dyes and paints they made use of the following: red obtained from buffalo-berries, black from sunflowers, and yellow from a kind of moss which came from the Rocky Mountains. Blue, red, black, yellow and white clays were also used.

An indispensable article of the full dress was the fan. These were made from the large plumes of the eagle, hawk, crow, and a number of other birds, depending on the rank of the owner.

The Mandan pipes differed a trifle from those of their neighbors, being less ornate.[3] They were either of stone, black clay, or yellow clay painted black. The stone pipes were obtained mostly from the Dakotas. Pipes with wooden bowls, lined with stone, were also used. The stem was long and round or flat. Catlin describes one pipe as of red steatite (catlinite) with a stem three feet long, half its length wound with braids of porcupine quills. They also had the calumet pipe which will be considered in connection with the ceremonies.

The Mandans and their neighbors the Arikara and Hidatsa made glass beads, an art which they claimed was taught to them by the Snake Indians. They did not make the glass but used glass obtained through the whites. Lewis and Clarke[4] give a short account of the manufacture of beads which is exceedingly interesting. It may be thus summarized. The secret is known only to a few. Glass of several colors is pounded fine, each color separate; this is washed in several waters until the glass stops staining the water. They then take an

[1] Op. cit., vol. I, p. 340.
[2] Ibid., p. 201.
[3] Maximilian: p. 390.
[4] March 16, 1805.